Typed or printed name

## RECEIVED CENTRAL FAX CENTER

PAGE 01/10

MAR 2 5 2005

PTO/SE/21 (09-04)
Approved for use through 07/31/2008, OMB 0851-0031
U.S. Peterit and Trademank Office; U.S. DEPARTMENT OF COMMERCE Under the Paperwork Rechastion Act of 1995, no parsons are regulated to respond to a collection of information unless it displays a valid OMB control number. **Application Number** 10/664,295 Filing Date September 17, 2003 TRANSMITTAL First Named Inventor Toshiki HIRANO **FORM** Art Unit 2651 **Examiner Namo** N. Figueroa (to be used for all correspondence after initial filing) Altomoy Docket Number H\$J920030073U\$1 Total Number of Pages in This Submission **ENCLOSURES** (Check all that apply) After Allowance Communication to TC **^** Fee Transmittal Form Drawing(s) Appeal Communication to Board Licensing-rolated Papers of Appeals and Interferences Fee Attached Appeal Communication to TC Petition (Appeal Hotice, Brief, Reply Brief) Amendment/Reply Petition to Convert to a Proprietary Information After Fine! Provisional Application Power of Attorney, Revocation Change of Correspondence Address Status Letter Affidavits/declaration(s) Other Enclosure(s) (please Identify Terminal Disclaimer below): Extension of Time Request Request for Refund Express Abandonment Request CD. Number of CD(s) Information Disclosure Statement Landscape Table on CD Certified Copy of Priority Remarks Document(s) Reply to Missing Parts/ Incomplete Application Reply to Missing Parts under 37 CFR 1.52 or 1.53 SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT Firm Name Signature Printed name h P. Curlin Joseb Date Reg. No. 34,571 March 25, 2005 CERTIFICATE OF TRANSMISSION/MAILING I hereby certify that this correspondence is being facsimile transmitted to the USPTO or deposited with the United States Postal Service with sufficient poetage as first class mall in an envelope addressed to: Commissioner for Patents, P.O. Rox 1450, Alexandria, VA 22313-1450 on Facsimile Transmitted 10 pages to 703-872-9306 on March 25, 2005 the date shown below. Signature

This collection of information is required by 37 CFR 1.5. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentially is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the ground not into amplicite this form analyse suggestions for reducing this burdon, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450, DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS, SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

Date

March 25, 2005

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

Maseph B. Curtin, Registration No. 34,571

PTC/SB/17 (12-04v2)
Approved for use through 07/31/2008, OMB 0651-0032
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Panerer	uk Restauthan Act of 1999	DO DEPARTS AND INCHES	ed to re	onond to a nolleation	not inform	Author Hullow	H dicaha	vs a valid OMB control number
	Effective on 12/08/2	004.	40401			complete	if Kno	พก
Fees pursuant to the Consolidated Appropriations Act, 2005 (H.R. 4818).			Application Num	uber	10/664,295			
FEE TRANSMITTAL			Filing Date		September 17, 2003		2003	
For FY 2005			First Named Inv	entor	Toşhiki H	IRANC	) '	
D Applicant ele	ims small entity status	CAA 27 CED 1 27		Examiner Name	:	N. Figuer	ра	
				Art Unit		2651		
TOTAL AMOUNT	OF PAYMENT (3	180		Attorney Dockel	Attorney Docket No. HSJ920030073US1			ust
METHOD OF P	AYMENT (check al	that apply)						
Check	Credit Card	Money Order	Nor	ie Other (p	lease ide	ntify):		
Deposit Ac	count Deposit Accour	t Number: 50-25B7	•	Deposit Ac	count Na	me: Hitac	ni Gloi	bal Storage
	ove-Identified deposit			reby authorized to	: (check	all that app	ly)	
<b>√</b> Cha	rge fee(s) indicated b	elow		Charg	e fee(s)	indicated b	elow, e	xcept for the filing fee
<b>∏</b> or	arge any additional fee	(s) or underpayment	ts of fe	e(a) Credit	any ove	rpayments		
WARNING: Informati	er 37 CFR 1.16 and 1 tion on this form may b	scome public. Credit (	card in	romation should re	ot be incl	uded on thi	s form. I	Provide credit card
Information and aut	norization on PTO-2038	•						
FEE CALCULA								
1. BASIC FILIN	G, SEARCH, AND FILING			CH FEES	FXAM	INATION	FEES	
Aug 112 - 41 - 2 T		mall Entity		Small Entity		Small	Intity	
Application T			Fee (\$		Fee			Fees Paid (\$)
Utility	300	150	500	250	200	• • • • • • • • • • • • • • • • • • • •		
Design	200	100	100	50	130			
Plant	200	100	300	150	160			
Reissue	300	150	500	250	600			
Provisional	200	100	0	0	0	' (	)	Creat Entitu
2. EXCESS CL Fee Description						E	ee (\$)	Small Entity Fee (\$)
Each claim o	ver 20 (including F						50	25
	ndent claim over 3	including Reissue	25)	•			200 360	100 180
Multiple dep	endent claims Exte Clair	ns Fee (\$)	Fee	Pato (\$)				Pependent Claims
-2	0 or HP =	_ ×					ee (\$)	Fee Paid (\$)
HP ≈ highest nun Indep, Claims	nber of total claims paid f Extra Claji		Fee	Paid (\$)				·
-3 or HP = X								
HP = trignest number of Independent claims paid for, if greater than 3.								
3. APPLICATION SIZE FEE If the specification and drawings exceed 100 sheets of paper (excluding electronically filed sequence or computer								
listings under 37 CFR 1.52(e)), the application size fee due is \$250 (\$125 for small entity) for each additional 50								
sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1 16(a).  Total Sheets Extra Sheets Number of each additional 50 or traction thereof Fee (\$) Fee Paid (\$)								
-100 = /50 = (round up to a whole number) x =								
4. OTHER FEE(S)  Non-English Specification, \$130 fee (no small entity discount)  Feee Paid (5)								
Other (e.g.,	late filing surcharge	):Submission of IDS	S unde	r 37 C.F.R. 1.97(d	)			180
SUBMITTED BY								
	Edille.	·• · · · · · · · · · · · · · · · · · ·	T	Registration No.	4571		Telepho	<sup>one</sup> 503-298-8373
~ /	THE COUNTY		T.	(Attorney/Agent)	, ·		-	

Name (Print/Typs) Joseph P. Curtin Date March 25, 2005

This collection of Information is required by 37 CFR 1.136. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 25 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 30 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the Individual case. Any comments on the smount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief information Office, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ACCRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

4. OTHER FEE(S)

PTO/SB/17 (12-04v2) Approved for use through 07/31/2006, OMB 0651-0032
U.S. Petent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
La Lighterifon of information under the disclosure a world OMB control number. Under the Panarwork Reduction Act of 1995, no nemons are required to resurred to a subtration of to Complete if Known Effective on 12/08/2004. Fees pursuant to the Consolidated Appropriations Act, 2005 (H.R. 4818). 10/664,295 Application Number TRANSMITTAL Filing Date September 17, 2003 First Named Inventor For FY 2005 Toshiki HIRANO **Examiner Name** N. Figueroa Applicant claims small entity status. See 37 CFR 1.27 Art Unit 2651 180 H\$J\$20030073U\$1 TOTAL AMOUNT OF PAYMENT Attorney Docket No. METHOD OF PAYMENT (check all that apply) Other (please identify): Money Order Credit Card Check Depusit Account Deposit Account Number: 50-2587 Deposit Account Name: Hitachi Global Storage For the above-identified deposit account, the Director is hereby authorized to: (check all that apply) Charge fee(s) Indicated below Charge fee(s) indicated below, except for the filling fee Charge any additional fee(s) or underpayments of fee(s) Credit any overpayments under 37 CFR 1.16 and 1.17 WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038. FEE CALCULATION 1. BASIC FILING, SEARCH, AND EXAMINATION FEES **EXAMINATION FEES** FILING FEES SEARCH FEES Small Entity Small Entity Small Entity Fees Paid (\$) Fee (\$) Eer (S) Fee (\$) Fee (\$) Fee (5) **Application Type** Fee (\$) 200 100 300 500 250 150 Utility 65 130 200 100 100 50 Design 160 80 200 100 300 150 Plant 500 250 600 300 300 150 Rcissue 0 200 100 Provisional Small Entity 2. EXCESS CLAIM FEES Fee (\$) Fee (\$) Fee Description 50 Each claim over 20 (including Ressues) 100 200 Each independent claim over 3 (including Reissues) 360 180 Multiple dependent claims Multiple Dependent Claims Fee (\$) Fee Paid (\$) Total Claims Extra Claims Fee Paid (\$) Fee (\$) . 20 or HP = × HP = highest number of total claims paid for, if greater than 20. Extra Clatms Pee Paid (\$) Indep, Claims - 3 OF HP = HP = highest number of independent claims paid for, if greater then 3, APPLICATION SIZE FEE If the specification and drawings exceed 100 sheets of paper (excluding electronically filed sequence or computer listings under 37 CFR 1.52(e)), the application size fee due is \$250 (\$125 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s).

Total Sheets Extra Sheets Number of each additional 50 or fraction thereof Fee Paid (\$) Fee (\$) Extra Sheets Total Sheets (round up to a whole number) x Feec Paid (8)

Other (e.g., late	filing surcharge): Submis	sion of IDS under 37 C.F.R. 1.97(d)	180
SUBMITTED BY		- Consistent in No.	
Signature	Dellet -	Registration No. 34571	Telephone 503-296-8373
Name (Print/Type) Jo	enh P. Curtin		Date March 25, 2005

This andirection of information is required by 97 CFR 1.130. The information is required to obtain or retain a benefit by the public which is to file (and by the UCPTO to process) an application. Confidentially is growning by 35 U.S.C. 122 and 37 CFR 1.14. This coffection is estimated to take 30 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9198 and select option 2.

Non-English Specification, \$130 fee (no small entity discount)

## RECEIVED CENTRAL FAX CENTER

MAR 2 5 2005

PATENT

## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In Re Applica	ation of:	)	
To	shiki HIRANO et al.	) Group Art Unit:	2651
Serial No.:	10/664,295	) ) Examiner:	N. Figueroa
Filed:	September 17, 2003	)	
For:	HEAD-DISK INTERACTION SENSOR INTEGRATED WITH SUSPENSION	Atty Dkt No. F	ISJ920030073US1

## SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT

Commissioner For Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

Sir:

Pursuant to 37 C.F.R. § 1.56 and in compliance with 37 C.F.R. §§ 1.97(d) and (e) and 1.98, Applicant submits herewith a Supplemental Form PTO-1449 listing patents and a Patent Abstract of Japan for consideration in connection with the above-identified application. A copy of the Patent Abstract of Japan is provided herewith.

Additionally, Applicant submits herewith a copy of a European Search Report that was issued on January 21, 2005, in a European Patent Application corresponding to the above-captioned patent application.

Applicant respectfully submits that each item of information contained in this Information Disclosure Statement was first cited in a communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this Information Disclosure Statement. Additionally, Applicant has submitted a Fee Transmittal form concurrently with this Information Disclosure Statement authorizing Deposit Account No. 50-2587 to be debited in the amount of the fee set forth in 37 C.F.R. § 1.17(p).

Applicant respectfully requests that the Examiner consider and enter these patents and

1

Application Serial No. 10/664,295

03/25/2005 10:58 5032970452

documents into the file of the above-identified application. It any additional fee is deemed necessary, the Commissioner is authorized to charge our Deposit Account No. 50-2587.

A general authorization under 37 C.F.R. § 1.25(b), second sentence, is hereby given to credit or debit Deposit Account No. 50-2587 for the instant filing and for any other fees during the pendency of this application under 37 C.F.R. §§ 1.16, 1.17 and 1.18.

Respectfully submitted,

Mosenh P Curtin

Begistration No. 31,571

1469 N.W. Morgan Lane

Portland, Oregon 97229-5291

(503) 296-8373

(503) 297-0452 (facsimile)

Dated: March 25, 2005

PTO/S8/08A (04-03)
Approved for use through 04/30/2003, OMB 0651-0031
rademark Office; U.S. DEPARTMENT OF COMMERCE

	o reapond to a collection of information unless it contains a valid OMB control number.  Complete if Known					
Substitute for form 1449/PTO	Application Number	10/664,295				
	Filing Date	September 17, 2003				
INFORMATION DISCLOSURE	First Named Inventor	Toshiki HIRANO				
STATEMENT BY APPLICANT	Art Unit	2651				
(Use as many sheds as necessary)	Examiner Name	N. Figueroa				
Shoot 1 of 1	Attorney Docket Number	HSJ920030073US1				

Examiner Initials*	City No.	Document Number	Publication Date MM-DD-YYYY	Name of Patentee of Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant
	No.	Number-Kind Code <sup>2</sup> (F knowley)	MINICOLITY	Applicant of cited cocument	Figures Appear
	2	US 4,532,802	08-06-1985	Yeack-Scranton et al.	
	3	US- 6,092,412	07-25-2000	Flechsig et al.	
	4	US- 5,581,021	12-03-1996	Flechsig et al.	
	5	US- 4,868,447	09-19-1989	Lee et al.	
		U6-			
	1	US-			
_		US-			
	<b></b>	US-			
		U\$-			
		us-			
	<b></b>	US-			
		US-			
	1	US-			
		US-			
	1	US-			
	<del>                                     </del>	US-			
	1	US-			
	<del> </del>	V8-			
	1-	US-			

		HURÉI	GN PATENT DOCU	MENTS		
Examiner Initials*	Gtte Np.1	Foreign Patent Occument	Publication Date	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages	
		Country Code <sup>3</sup> Number <sup>4</sup> "IGnd Code" (# Anuwn)	MM-OD-YYYY		Or Relevant Figures Appear	Ľ
	8	JP 03 105763	05-02-1991	Maruyama Fuminobu		⊨
						┡
						┝
						├─
	<u> </u>				<del> </del>	┢━
	1				<u> </u>	

	1	T
Examiner	 Onte	
Signature	Considered	
Ciff. Iora G	 1	

\*EXAMINER: Initial if reference considered, whether or not distaion is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered, holude copy of this form with next communication to applicant. \*Applicant's unique citation designation number (optional). \*See Kinds Codes of USPTO Patent Occurrents at <a href="https://www.uspto.gov">www.uspto.gov</a> or MPEP 901.04. \*Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). \*For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the petent document. \*Indicated on the document under WIPO Standard ST. 16 if possible. \*Applicant is to place a check mark here if English language

the appropriate symbols as Indicated on the excurrent under VIPO standard 31. To it pleasable. Applicable is the past a circle ministration be stateched.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to bis (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time your require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Parent and Trademerk Office, U.S. Department of Commerce, Washington, DC 20231. DO NOT SEND PLES ON COMPLETED FORMS TO This ADDRESS. DEND TO: Commissioner for Patents, Washington, DC 20231.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.